## **ABSTRACT**

- 1 Estimates of ringing produced by short recovery pulse sequences (CPMG or modified
- 2 CPMG) are used to improve the effects of ringing in a conventional CPMG or modified
- 3 CPMG sequences. This is an effective method for removal of ringing when the ringing is
- 4 varying over a time interval that would be spanned by a phase alternated pair of
- 5 conventional sequences. By use of frequency dithering, ringing due to the excitation
- 6 pulse and the refocusing pulses can be removed.

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